#### DEMO 1:

### **TOPOLOGY DEVICE:-**

Device's	Ip address
RT1	172.19.37.161
RT2	172.19.37.162

### Step1:-

Import **Demo1.postman\_collection.json** to postman.

### Step2:-

Demo operation steps (on ONOS and Devices).

Start VPN(one time):

For US team's virtual machine:

cd /home/sdn/Downloads/ARRAY\_VPN\_CLIENT

./hacakathon\_vpn\_server\_connect.py

### Start ONOS(if onos is not started):

ssh onos@172.19.37.52

cd onos-1.10.0-SNAPSHOT/apache-karaf-3.0.8/bin

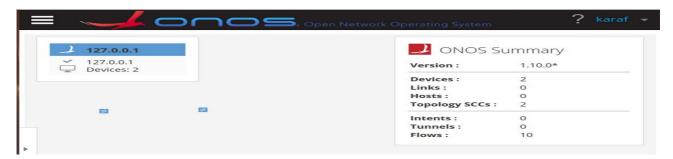
./karaf clean

### Wait for onos to start, check UI

check GUI http://172.19.37.52:8181/onos/ui

# Step2:- Device's connection with onos

- A) Device config post requests(**deviceconfig**) on to one of the onos instance via postman.
- B) Devices can be seen on onos gui.



Note:- Below step are common for DEMO1 and DEMO2 only difference is json request should be sent from postman demo2-collection for demo2.

## Steps3:-

### **Pre-Observations:-**

Ping should not work between devices.

start ping on RT1 using: ping -c 10000 -s 8000 -vpn-instance vrf1 10.1.1.2

## Step4:-

Send create via postman

- A. Send instance create post requests(RT1/RT2 create VPN) on both devices.
- B. Send interface create post requests(RT1/RT2 create interface) on both devices.
- C. Send get request(**GetAll**) to verify post in store.
- D. Check Routers' configuration:

ssh telnet\_admin@172.19.37.161

sys

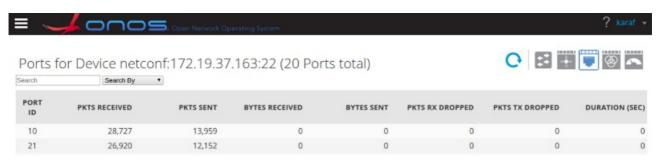
display current-configuration

Vpn instance and interface should be configured on device as shown below: ip vpn-instance vrf1 description vrfDescription ipv4-family route-distinguisher 100:1 vpn-target 100:1 export-extcommunity vpn-target 100:1 import-extcommunity # and interface Ethernet3/0/4 undo shutdown ip binding vpn-instance vrf1 in address 10.1.1.1 255.255.255.0

## same apply to Router 2 (172.19.37.162)

## **Observation points:-**

- A. Ping should work between devices.
- B. Traffic flow can be observed between device ports.
- C. To check packet stats on link press 'a' three times.



# Step6:-

- A. Send delete request(**deleteAll**) for both the devices.
- B. Send get request(GetAll) to verify delete in store.

#### **Limitations:**

In step 5 instance create post should be sent always before interface create post.